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E-mail: bmrceinfra@gmail.com

Date:15/05/2020 **Report No: BI/TR/2020-21/01**

TEST REPORT ON MANUFACTURED SAND SAMPLE FOR M10 CONCRETE

Name of Client	Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency	Sathya Construction
Project Name	Construction of CC drains and Development works in ward no 01.
Sample received on	12/05/2020
Technical Reference	IS 2386(Part-1):1963 IS 2386(Part-3):1963), IS 383 - 2016
Date of Testing	14/05/2020

Grain Size Distribution of M Sand					
Sl. No.	**Sieve Size as per IS: 383 - 2016**	**% Passing**	**Standard Gradation as per IS 383- 2016 for**		
			Zone I	**Zone II**	**Zone III**
1	10.0 mm	**100.00%**	100	100	100
2	4.75 mm	**98.80%**	90 - 100	90 - 100	90 - 100
3	2.36 mm	**83.10%**	60 - 95	75 - 100	85 - 100
4	1.18 mm	**70.34%**	30 - 70	55 - 90	75 - 100
5	600 µ	**39.18%**	15 - 34	35 - 59	60 - 79
6	300 µ	**28.64%**	5 - 20	8 - 30	12 - 40
7	150 µ	**8.53%**	0 - 10	0 - 10	0 - 10
The M Sand fulfill the requirement of Gradation of Zone **II** as per IS 383-2016.					

Sl. No.	**Description**	**Result**
1	Bulk Density of Sand, g/cc	
	Loose	1.61
	Compacted	1.85
2	Specific Gravity of Sand	2.58

Note:

1. The results relate only to the items tested.
2. Any corrections will invalidate this report.
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Date: 30/06/2020

Report No: BI/TR/2020-21/85

TEST REPORT ON CONCRETE CUBE

Name of Client	Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency	Sathya Construction
Project Name	Construction of CC drains and Development works in ward no 02.
Sample receipt date	06/06/2020
Technical Reference	IS 516 – 1959 (RA 2008)
Casting Date	01/06/2020
Location	Drain Raft and Wall in Ward 02
Date of Testing	29/06/2020

Sample No	Age of Cube, Days	Grade of Concrete	Cross Sectional Area, mm^2	Failure Load (KN)	Compressive Strength (N/mm^2)
1	28	M 20	22500	546	24.27
2	28	M 20	22500	598	26.58
3	28	M 20	22500	563	25.02

Note:

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Date: 30/06/2020 **Report No: BI/TR/2020-21/DBM/08**

TEST REPORT ON BINDER CONTENT FOR DBM Gr - II

Name of Client	Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency	Sathya Construction
Project Name	Construction of CC drains and Development works in ward no 02
Date of Laying	29/06/2020
Technical Reference	IRC: SP-11 (ASTM 2172)
Date of Testing	29/06/2020

BINDER CONTENT				
Sl. No.	**DESCRIPTION**	**Trial 1**	**Trial 2**	**Average**
1	Weight of mix, W (gm.)	500	501	**4.58%**
2	Weight of sample (Bowl + Mix) before extraction, W_1 (gm.)	700	701	
3	Weight of sample (Bowl + Mix) after extraction, W_2 (gm.)	676	677	
4	Weight of filter paper before extraction, W_3 (gm.)	12.1	12.1	
5	Weight of filter paper after extraction, W_4(gm.)	13.1	13.3	
6	Bitumen content by wt. of mix % = $[(W_1 - W_2) - (W_4 - W_3)]/Wx100$	4.60	4.55	

Note:

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Date: 08/07/2020 **Report No: BI/TR/2020-21/BC/06**

TEST REPORT ON BINDER CONTENT FOR BC – Gr II

Name of Client	Executive Engineer, BBMP Yelahanka Division, Bangalore. .
Name of Agency	Sathya Construction
Project Name	Construction of CC drains and Development works in ward no 02
Date of Laying	07/07/2020
Technical Reference	IRC: SP-11 (ASTM 2172)
Date of Testing	07/07/2020

BINDER CONTENT				
Sl. No.	**DESCRIPTION**	**Trial 1**	**Trial 2**	**Average**
1	Weight of mix, W (gm.)	509	507	**5.46%**
2	Weight of sample (Bowl + Mix) before extraction, W_1 (gm.)	709	707	
3	Weight of sample (Bowl + Mix) after extraction, W_2 (gm.)	681	678	
4	Weight of filter paper before extraction, W_3 (gm.)	12.1	11.4	
5	Weight of filter paper after extraction, W_4(gm.)	12.4	12.6	
6	Bitumen content by wt. of mix % = $[(W_1 - W_2) - (W_4 - W_3)]/Wx100$	5.44	5.48	

Note:

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